

**REMARKS**

The Patent Examiner has rejected claims 37-46, 80, 95 and 96 under 35 U.S.C. §251 as constituting an improper capture of subject matter surrendered during the application for the original patent. Applicant agrees and has canceled these claims. Claim 79 has also been canceled.

The Patent Examiner has rejected claim 62 as unpatentable under 35 U.S.C. §112 for the reason that the original disclosure fails to disclose that the "heating chamber is generally cone-shape". Applicant respectfully traverses this ground for rejection. Specifically, FIG. 2 of the patent drawing clearly shows that the mixing chamber is cone shaped.

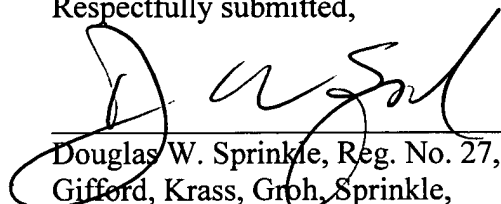
The obvious typographical error of claim 66 has been noted and corrected by this amendment.

The Examiner's objection to claim 86 under 35 U.S.C. §112 has been duly noted and corrected. Specifically, the phrase "is in a crank mode" has been replaced by "during engine startup". A similar amendment has also been made to claims 90 and 97 thus overcoming the Patent Examiner's rejection of those claims under 35 U.S.C. §112.

Lastly, although the Examiner has required surrender of the original blue ribbon patent, such surrender is no longer required; see MPEP 1416.

In view of the foregoing, Applicant respectfully submits that this case is in condition for formal allowance and such action is respectfully solicited.

Respectfully submitted,



Douglas W. Sprinkle, Reg. No. 27,394  
Gifford, Krass, Groh, Sprinkle,  
Anderson & Citkowski, P.C.  
2701 Troy Center Drive, Suite 330  
P.O. Box 7021  
Troy, MI 48007-7021  
(248) 647-6000

Attorney for Applicant

Serial No. 09/839,837  
Reply to Office Action of December 8, 2005

DWS/gs  
GS-W:\Word Processing\dws\HAL11303-amd.doc

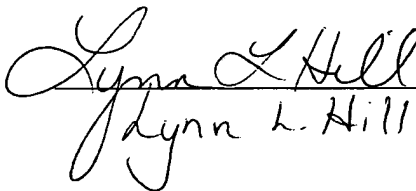


**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**

"EXPRESS MAIL" MAILING LABEL NUMBER EV 855946492US

DATE OF DEPOSIT March 20, 2006

I hereby certify that this paper or fee (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service "Express Mail Post Office To Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Lynn L. Hill